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Job No.:CECTC/NCC/QC/2020-21

Date: 27.03.2021

DETERMINATION OF FLAKINESS INDEX & ELONGATION INDEX OF COARSE AGGREGATES

Client	**Bruhath Bengaluru Mahanagara Palike.**
Agency	**NCC Limited**
Name of Work	Whitetopping Yelahanka from Sheshadripuram First Grade College To Arama Bakery Junction
Location	Chandra Café to Kanti Sweets- LHS & RHS Ch:0.00 to 450.00
Technical Referenc	IS 2386(Part 1) 1963 (RA 2016)
Type of Mix	Bituminous Macadam
Date of Testing	27.03.2021

Result : Flakiness Index = **13.58%**

Elongation Index = **9.88%**

Result : Combined Flakiness & Elongation index **23.46%**

Comments:

→ Maximum allowable Flakiness & Elongation Index for Bituminous Macadam is 35%

Note:

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Reviewed

For CIVIL EXPERTS

Authorised Signature

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Date : 27.03.2021

Aggregate Impact Value
IS: 2386 Part IV 1963 RA 2016

Client	Reshath Bengaluru Mahanagara Palike.
Agency	NCC Limited
Name of the Work	Widening upto 7.65mtrs from Sheshadripuram First Grade College To Aruna Rakery Junction
Location	Chandra Café to Excel Screen. UHS & RHS Ch.0.00 to 350.00
Type of Mix	Bituminous Macadam
Date of Testing	27.03.2021

Sl No.	Details	Trial No. 1	2	3	Average
1	Dry weight of aggregate sample filling the cylindrical measure = W_1 g	360	373	360	
2	Weight of aggregate passing 2.36 mm sieve after the test = W_2 g	80	81	83	
3	Weight of aggregate retained 2.36 mm sieve after the test = W_3 g	288	291	277	
4	Aggregate Impact value = percent fines $100^* (W_2/W_1)$%	21.74	21.77	23.06	22.19

Comments:
-* Maximum allowable Aggregate Impact value for Bituminous Macadam is 30%

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Job No: CECTC/NCC/QC/2020-21

Date: 27.03.2021

TEST REPORT

Client	:	**Bruhath Bengaluru Mahanagara Palike.**
Agency	:	**NCC Limited**
Name of Work	:	Whitetopping Yelahanka from Sheshadripuram First Grade College To Aroma Bakery Junction
Location	:	Chandra Café to Kanti Sweets- LHS & RHS Ch0.00 to 450.00
Source of location	:	Hot mix Plant, Bangalore
Date of testing	:	27.03.2021

The results of the tests conducted on the bitumen sample using for Bituminous Macadam

Sl. No	Description	Test Result	Requirement as per IS:73:2013
1	Penetration at 25 °C, 1/10 mm	65	60 - 70
2	Softening point, °C	52	Min. 45
3	Ductility at 27°C, cm	> 100	Min. 50
4	Flash Point, °C	318	Min. 220

Executive Engineer
Quality Control Division
Yelahanka Zone
Bangalore - 92

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Job No.: CECTC/NCC/QC/2020-21

Date: 02.04.2021

DETERMINATION OF RATE OF SPREAD TACK COAT

CLIENT	:	Bruhath Bengaluru Mahanagara Palike.
AGENCY	:	NCC Limited
NAME OF THE WORK	:	Whitetopping Yelahanka from Sheshadripuram First Grade College To Arama Bakery Junction
LOCATION	:	Chandra Café to Kanti Sweets- LHS & RHS Ch:0.00 to 450.00
DATE OF TESTING	:	02.04.2021

Determination	Unit	Test No	
		1	2
Size of Plate (mxm)	mt	0.45 X 0.45	0.45 X 0.45
Area of Plate (a)	Sq.m	0.2025	0.2025
Initial Wt of empty Plate (b)	Kg	1.632	1.631
Final weight of plate after application of prime /Tack Coat (c)	Kg	1.684	1.683
Weight of Prime/Tack Coat (d=c-b)	Kg	0.0520	0.0520
Rate of spread of prime /tack coat	kg/Sq.m	0.257	0.257
Average	kg/Sq.m	0.257	
Specified Limit	kg/Sq.m	0.25 Kg/sq.m	

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Job No: CIVIL/NCC/QC/2020-21

Date: 27.03.2021

Aggregate Gradation Test
IS : 2386 Part I-1963 RA 2016

Client	Bruhath Bengaluru Mahanagara Palike.
Agency	NCC Limited
Name of the work	Whitetopping Yelahanka from Sheshadripuram First Grade College To Arasu Bakery Junction
Location	Chandra Café to Kaali Sweets: LHS & RHS Ch:0.00 to 450.00
Type of Mix	Bituminous Macadam
Date of Testing	27.03.2021

5350 gm

SIEVE SIZE, mm	Weight Retained, gm	% Retained	Cummulative % Retained	% Passing	Grade-II As per MORTH	Remarks
26.5	0	0	0	100	100	Gradation satisfies Grade-II MORTH specification
19	158	3.01	3.01	96.99	90-100	
13.2	1136	21.45	24.46	75.54	56-88	
4.75	2147	40.90	65.35	34.65	16-36	
2.36	986	18.78	84.13	15.87	4-19	
0.3	335	6.38	90.51	9.49	2-10	
0.075	152	2.90	93.41	6.59	0-8	

Total Weight of Sample: 5050 gm

SIEVE SIZE, mm	Weight Retained, gm	% Retained	Cummulative % Retained	% Passing	Grade-II As per MORTH	Remarks
26.5	0	0	0	100	100	Gradation satisfies Grade-II MORTH specification
19	196	3.88	3.88	96.12	90-100	
13.2	1247	24.69	28.57	71.43	56-88	
4.75	2015	39.90	68.48	31.52	16-36	
2.36	970	19.21	87.68	12.32	4-19	
0.3	325	6.44	94.12	5.88	2-10	
0.075	162	3.21	97.33	2.67	0-8	

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Job No.CECTC/NCC/QC/2020-21

Date: 27.03.2021

DETERMINATION OF FLAKINESS INDEX & ELONGATION INDEX OF COARSE AGGREGATES

Client	**Bruhath Bengaluru Mahanagara Palike.**
Agency	**NCC Limited**
Name of Work	Whitetopping Yelahanka from Sheshadripuram First Grade College To Arama Bakery Junction
Location	Chandra Café to Kanti Sweets- LHS & RHS Ch:0.00 to 450.00
Technical Reference	IS 2386(Part 1) 1963 (RA 2016)
Type of Mix	Bituminous Macadam
Date of Testing	27.03.2021

Result : Flakiness Index = **14.86%**

Elongation Index = **10.36%**

Result : Combined Flakiness & Elongation index **25.22%**

Comments:

→ Maximum allowable Flakiness & Elongation Index for Bituminous Macadam is 35%

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Job No.: CBCTC/NCC/QC/2020-21

Date: 27.03.2021

Specific Gravity And Water Absorption Test

IS: 2386 Part III-1963 RA2016

Client	**Bruhath Bengaluru Mahanagara Palike.**
Agency	**NCC Limited**
Name of the Work	Whitetopping Yelahanka from Sheshadripuram First Grade College To Arama Bakery Junction
Location	Chandra Café to Kanti Sweets- LHS & RHS Ch:0.00 to 450.00
Type of Mix	Bituminous Macadam
Date of Testing	27.03.2021

Sl. No.	Details	Notation	Test Number			Mean Value
			Test 1	Test 2	Test 3	
1	Weight of aggregate suspended in water with the basket	W_1 g	2020	2016	2022	
2	Weight of basket suspended in water	W_2 g	752	752	752	
3	Weight of saturated aggregate in water	$(W_1 - W_2) = W_s$ g	1268	1264	1270	
4	Weight of saturated surface dry aggregate in air	W_3 g	2019	2018	2016	
5	Weight of water equal to the volume of the aggregate	$(W_3 - W_S)$ g	751	754	746	
6	Weight of oven dried aggregate	W_4 g	2008	2010	2009	
7	Specific Gravity	$W_4/(W_3-W_S)$	2.674	2.666	2.693	2.683
8	Apparent Specific gravity	$W_4/(W_4-W_S)$	2.714	2.694	2.719	2.716
9	Water Absorption	$((W_3-W_4)*100)/W_4$	0.55%	0.40%	0.35%	0.45%

Comments:

- Maximum allowable Aggregate Water absorption value for Bituminous Macadam is 2.0%

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Aggregate Impact Value

IS: 2386 Part IV-1963 RA 2016

Client	**Bruhath Bengaluru Mahanagara Palike.**
Agency	**NCC Limited**
Name of the Work	Whitetopping Yelahanka from Sheshadripuram First Grade College To Arama Bakery Junction
Location	Chandra Café to Kanti Sweets- LHS & RHS Ch:0.00 to 450.00
Type of Mix	Bituminous Macadam
Date of Testing	27.03.2021

Sl No.	Details	Trial No. 1	Trial No. 2	Trial No. 3	Average
1	Total weight of aggregate sample filling the cylindrical measure = W_1 g	368	372	360	
2	Weight of agregate passing 2.36 mm sieve after the test = W_2 g	82	84	86	
3	Weight of aggregate retained 2.36 mm sieve after the test = W_3 g	286	288	274	
4	Aggregate Impact value = percent fines	22.28	22.58	23.89	
	$100^* (W_2/W_1)\%$				**22.92**

Asst. Executive Engineer
Project Division
Yelahanka Zone - 92
BBMP

Comments:

→ Maximum allowable Aggregate Impact value for Bituminous Macadam is 30%

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Job No.: CECTC/NCC/QC/2020-21

Date: 27.03.2021

TEST REPORT

Client	:	**Bruhath Bengaluru Mahanagara Palike.**
Agency	:	**NCC Limited**
Name of Work	:	Whitetopping Yelahanka from Sheshadripuram First Grade College To Aranya Bakery Junction
Location	:	Chandra Café to Kanti Sweets- LHS & RHS Ch:0.00 to 450.00
Source of location	:	Hot mix Plant, Bangalore
Date of testing	:	27.03.2021

The results of the tests conducted on the bitumen sample using for Bituminous Macadam

Sl. No	Description	Test Result	Requirement as per IS:73:2013
1	Penetration at 25 °C, 1/10 mm	68	60 - 70
2	Softening point, °C	50	Min. 45
3	Ductility at 27°C, cm	> 100	Min. 50
4	Flash Point, °C	316	Min. 220

Executive Engineer
Division
Zone
92

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Job No: CECTC/NCC/QC/2020-21 Date: 02.04.2021

DETERMINATION OF RATE OF SPREAD TACK COAT

CLIENT	:	Sruhath Bengaluru Mahanagara Palike.
AGENCY	:	NCC Limited
NAME OF THE WORK	:	Whitetopping Yelahanka from Sheshadripuram First Grade College To Amma Bakery Junction
LOCATION	:	Chandra Café to Kunti Streets- LHS & RHS Ch:0.00 to 480.00
DATE OF TESTING	:	02.04.2021

Determination	Unit	Test No	
		1	2
Size of Plate (mxm)	mt	0.45 X 0.45	0.45 X 0.45
Area of Plate (a)	Sq.m	0.2025	0.2025
Initial Wt of empty Plate (b)	Kg	1.63	1.634
Final weight of plate after application of prime /Tack Coat (c)	Kg	1.684	1.683
Weight of Prime/Tack Coat (d=c-b)	Kg	0.0540	0.0490
Rate of spread of prime /tack coat	kg/Sq.m	0.267	0.242
Average	kg/Sq.m	0.254	
Specified Limit	kg/Sq.m	0.25 Kg/sq.m	

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Job No.: CECTC/NCC/QC/2020-21

Date: 24.02.2021

TEST REPORT ON CONCRETE CUBES

Client : **Bruhath Bangaluru Mahanagara Palike**
Agency : **NCC Limited**
Name of the work : Whitetopping Yelahanka from Sheshadripuram First Grade College To Arama Bakery Junction
Location : Chandra Café to Kanti Sweets- LHS & RHS Ch0.00 to 4.50.00
Sample ID : Cement Concrete
Size of cubes : 150mmx150mmx150mm
Cross Sectional Area : 22500 mm^2
Technical Reference : IS: 516-1959 (Reaffirmed 2018)
Grade of Concrete : M_{20}
Compressive Strength as on : 7 days

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	17.02.2021	24.02.2021	8.174	352.3	15.66
2	17.02.2021	24.02.2021	8.152	335.3	14.90
3	17.02.2021	24.02.2021	8.144	321.3	14.28

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Asst. Executive Engineer
Project Engineering Cell
Yelahanka Zone
BBMP, Bangalore - 64

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Job No.: CECTC/NCC/QC/2020-21 Date: 17.03.2021

TEST REPORT ON CONCRETE CUBES

Client : **Bruhath Bangaluru Mahanagara Palike**
Agency : **NCC Limitted**
Name of the work : Whitetopping Yelahanka from Sheshadripuram First Grade College To Arama Bakery Junction
Location : Chandra Café to Kanti Sweets- LHS & RHS Ch:0.00 to 450.00
Sample ID : Cement Concrete
Size of cubes : 150mmx150mmx150mm
Cross Sectional Area : 22500 mm^2
Technical Reference : IS: 516-1959 (Reaffirmed 2018)
Grade of Concrete : M_{20}
Compressive Strength as on : 28 days

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	17.02.2021	17.03.2021	8.214	452.3	20.10
2	17.02.2021	17.03.2021	8.263	463.8	20.61
3	17.02.2021	17.03.2021	8.285	521.6	23.18

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Job No.: CECTC/NCC/QC/2020-21

Date: 25.02.2021

TEST REPORT ON CONCRETE CUBES

Client : **Bruhath Bangaluru Mahanagara Palike**
Agency : **NCC Limitted**
Name of the work : Whitetopping Yelahanka from Sheshadripuram First Grade College To Arama Bakery Junction
Location : Chandra Café to Kanti Sweets- LHS & RHS Ch:0.00 to 450.00
Sample ID : Cement Concrete
Size of cubes : 150mmx150mmx150mm
Cross Sectional Area : 22500 mm^2
Technical Reference : IS: 516-1959 (Reaffirmed 2018)
Grade of Concrete : M_{20}
Compressive Strength as on : 7 days

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	18.02.2021	25.02.2021	8.159	336.8	14.97
2	18.02.2021	25.02.2021	8.165	352.9	15.68
3	18.02.2021	25.02.2021	8.125	374.5	16.64

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Job No.: CECTC/NCC/QC/2020-21

Date: 18.03.2021

TEST REPORT ON CONCRETE CUBES

Client	: **Bruhath Bangaluru Mahanagara Palike**
Agency	: **NCC Limitted**
Name of the work	: Whitetopping Yelahanka from Sheshadripuram First Grade College To Arama Bakery Junction
Location	: Chandra Café to Kanti Sweets- LHS & RHS Ch:0.00 to 450.00
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2018)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 28 days

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	18.02.2021	18.03.2021	8.206	456.5	20.29
2	18.02.2021	18.03.2021	8.224	502.3	22.32
3	18.02.2021	18.03.2021	8.236	536.5	23.84

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Executive Engineer, Project Division, Yelahanka

Infra Support Engineering Consultants Pvt. Ltd. Bengaluru

Reviewed

for CIVIL EXPERTS

Authorised Signature

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Soil Stabilization and Shoring Services | Non - Destructive Testing

Date: 27.02.2021

Job No: CE/CTC/NCC/QC/2020-21

TEST REPORT ON CONCRETE CUBES

Client : **Bruhath Bangaluru Mahanagara Palike**
Agency : **NCC Limitted**
Name of the work : Whitetopping Yelahanka from Sheshadripuram First Grade College To Arama Bakery Junction
Location : Chandra Café to Kanti Sweets- LHS & RHS Ch:0.00 to 450.00
Sample ID : Cement Concrete
Size of cubes : 150mmx150mmx150mm
Cross Sectional Area : 22500 mm^2
Technical Reference : IS: 516-1959 (Reaffirmed 2018)
Grade of Concrete : M_{20}
Compressive Strength as on : 7 days

SLNo.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	20.02.2021	27.02.2021	8.147	352.6	15.67
2	20.02.2021	27.02.2021	8.156	341.6	15.18
3	20.02.2021	27.02.2021	8.196	332.5	14.78

Note:
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Asst. Executive Engineer
Division
Zone

Infra Support Engineering Consultants Pvt. Ltd. Bangaluru

For CIVIL EXPERTS
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Soil Stabilization and Mixing Services | Non - Destructive Testing

Job No: CIVIL/NCC/CC/0049 Date: 30.03.2021

TEST REPORT ON CONCRETE CUBES

Client : Prashanth Bangalore Mahanagara Palike
Agency : NCC Limited
Name of the work : Widening & Strengthening of Road from Shankaripuram First Grade College to Aruna Rakes Junction
Location : Chandra Café to Kanti Sweets (LHS & RHS Ch.0.00 to 450.00)
Sample ID : Cement Concrete
Size of cube : 150mm X 150mm X 150mm
Cross Sectional Area : 22500 mm²
Technical Reference : IS 516-1959 (Reaffirmed 2018)
Grade of Concrete : M30
Compressive Strength at : 28 days
on

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm²)
1	28.02.2021	28.03.2021	8.203	484.8	21.50
2	28.02.2021	28.03.2021	8.228	502.3	22.32
3	28.02.2021	28.03.2021	8.204	514.8	22.88

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For CIVIL EXPERTS

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Job No: CECTC/NCC/QC/2020-21 Date: 02.03.2021

TEST REPORT ON CONCRETE CUBES

Client : **Bruhath Bangaluru Mahanagara Palike**
Agency : **NCC Limited**
Name of the work : Whitetopping Yelahanka from Sheshadripuram First Grade College To Aramna Bakery Junction
Location : Chandra Café to Kanti Sweets- LHS & RHS Ch0.00 to 4500.00
Sample ID : Cement Concrete
Size of cubes : 150mmx150mmx150mm
Cross Sectional Area : 22500 mm^2
Technical Reference : IS: 516-1959 (Reaffirmed 2018)
Grade of Concrete : M_{30}
Compressive Strength as on : 7 days

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	23.02.2021	02.03.2021	8.196	325.3	14.46
2	23.02.2021	02.03.2021	8.147	325.6	14.47
3	23.02.2021	02.03.2021	8.136	352.3	15.66

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Executive Engineer
Project Division
Yelahanka Zone
Bangalore-02
Reviewed

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TEST REPORT ON CONCRETE CUBES

Client	: Reshma Bungalow, Nelamangala Taluk
Agency	: NCC Limited
Name of the work	: Widening, Widening from Doddabidarakallu Main Cross College to Antara Bridge Junction
Location	: Outside Gate to Main Sewer Line & RCC Drain to ASCR
Sample ID	: Ordinary Concrete
Size of cube	: 150mm x 150mm x 150mm
Date Received from	: 25/02/2021
Technical Reference	: IS: 516-1959 (Reaffirmed 2004)
Grade of Concrete	: M25
Compressive Strength at	: 28 days

on

S.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm²)
1	25/02/2021	25/03/2021	8.263	626.3	27.83
2	25/02/2021	25/03/2021	8.204	642.3	28.50
3	25/02/2021	25/03/2021	8.263	802.3	35.62

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For CIVIL EXPERTS

Authorised Signatory

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Job No.: CE/TC/NCC/QC/2020-21 Date: 04.03.2021

TEST REPORT ON CONCRETE CUBES

Client : **Brahath Bangaluru Mahanagara Palike**
Agency : **NCC Limitted**
Name of the work : Whitetopping Yelahanka from Sheshadripuram First Grade College To Amma Bakery Junction
Location : Chandra Café to Kanti Sweets- LHS & RHS Ch:0.00 to 450.00
Sample ID : Cement Concrete
Size of cubes : 150mmx150mmx150mm
Cross Sectional Area : 22500 mm^2
Technical Reference : IS: 516-1959 (Reaffirmed 2018)
Grade of Concrete : M_{30}
Compressive Strength as on : 7 days

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	25.02.2021	04.03.2021	8.126	362.5	16.11
2	25.02.2021	04.03.2021	8.147	341.6	15.18
3	25.02.2021	04.03.2021	8.163	338.9	15.06

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Executive Engineer Project Division Bangalore-560 092

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For CIVIL EXPERTS
Authorised Signature

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Job No.: CECTC/NCC/QC/2020-21

Date: 25.03.2021

TEST REPORT ON CONCRETE CUBES

Client : **Bruhath Bangaluru Mahanagara Palike**
Agency : **NCC Limitted**
Name of the work : Whitetopping Yelahanka from Sheshadripuram First Grade College To Arama Bakery Junction
Location : Chandra Café to Kanti Sweets- LHS & RHS Ch:0.00 to 450.00
Sample ID : Cement Concrete
Size of cubes : 150mmx150mmx150mm
Cross Sectional Area : 22500 mm^2
Technical Reference : IS: 516-1959 (Reaffirmed 2018)
Grade of Concrete : M_{20}
Compressive Strength as on : 28 days

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	25.02.2021	25.03.2021	8.209	475.6	21.14
2	25.02.2021	25.03.2021	8.214	541.3	24.06
3	25.02.2021	25.03.2021	8.263	521.3	23.17

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Asst.AE

Executive Engineer
Project Division
Yelahanka Zone
Bangalore - 92

Infra Support Engineering Consultants Pvt. Ltd. Bengaluru

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